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Akio Matsuda et al.

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A2 SYMMETRIC MULTIPROCESSOR OPERATING SYSTEM FOR EXECUTION ON NON-IND A1 System simulation method A1 System simulation method A1 Printer comprising a printhead and at least two printer controllers connected to a common input in the comprising a printhead and at least two printer controllers connected to a common input in the comprising a printhead and at least two printer controllers connected to a common input in the common system using pre-encoded macro-blocks and a reference grid A1 Video game system using pre-encoded macro-blocks in an I-frame A1 Video game system using pre-encoded macro-blocks in an I-frame A1 Video game system using pre-encoded motion vectors A1 Video game system using pre-generated motion vectors A2 Video game system using pre-generated motion vectors A3 Video encoder with latency control A4 Mechanism for instruction set based thread execution on a plurality of instruction sequencers A2 System development tool			1 Fetch director employing barrel-incrementer-based round-robin apparatus for use in multithreadi Instruction/skid buffers in a multithreading microprocessor  1 Processor instruction retry recovery  1 Processor instruction retry recovery  2 Barrel-incrementer-based round-robin apparatus and instruction dispatch scheduler employing so Automatic generation of software-controlled caching and ordered synchronization  3 Print controller for supplying data to a printhead comprising different printhead modules  4 Printhead module having operation controllable on basis of thermal sensors  5 Method for at least partially compensating for errors in ink dot placement due to erroneous rotatic printhead module having nozzle redundancy  5 Printhead module having nozzle redundancy  6 Printher controller for supplying data to a printhead capable of printing a maximum of n channels of printer controller for supplying data to a printhead repagale of printing a maximum of n channels of printing and printing a maximum of n channels of printing a printing a maximum of n channels of printing a printing a maximum of n channels of printing a prin
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20050273785	Program flow control: contexts in environments not supporting direct modification of the CPU sta	20051208 718/100
US 20050262510 A1	Multi-threaded processing design in architecture with multiple co-processors	20051124 718/105

ized objects to store data 20051117 714/6 d multiprocessor SoC 20051110 711168			20051020 /10/52 20051020 /10/52	2005052 713/190		20050818 717/140	20050811	20050728	20050707	20050623		20050609		20050519	10e 101   Systems	20030414	20050303	20050303	20050224 711/118		20041230 710/200	20041202 718/100	20041125 718/100			20040930 /11/1/0	20040923 710/1 hitecture	2004025	stem 20040729			20040108	20030918	20030911	20030911	20030703	20030703	20030703	20030605	S	THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SE
Transaction-based storage system and method that uses variable sized objects to store data Smart memory based synchronization controller for a multi-threaded multiprocessor SoC	Synchronized storage providing multiple synchronization semantics	Advanced application framework system and method for use with a diagnostic medical ultrasoun	Method of and device for changing an output rate Software self-defense systems and methods	Software self-defense systems and methods	Predictable design of low power systems by pre-implementation estimation and optimization	Software self-defense systems and methods	Automatic generation of graphical program code for a graphical program based on the target plai	Programmable event driven yield mechanism which may activate other threads	Mechanism to exploit synchronization overhead to improve multithreaded performance	Across-thread out of order instruction dispatch in a multithreaded graphics processor	Modular gateway	Integrated mechanism for suspension and deallocation of computational threads of execution in	Mechanisms for dynamic configuration of virtual processor resources	Mothed and method for implementing a client side Hill P stack	Metriou and apparatus for automatic modelling building using meterice for 11 systems Safety controller with cafety reconnect time manifering	Salety Collingues with Salety response time morning. Machanisms for assirting quality of service for programs executing on a multithreaded processor	Integrated mechanism for suspension and deallocation of computational threads of execution in	Cross-platform virtual tape device emulation	Multi-core multi-thread processor	Method and framework for tracking/logging completion of requests in a computer system	Queued locks using monitor-memory wait	Decentralized, Distributed Internet Data Management	Packet processing system	Systems and methods for investment decision support	Program parallelization device, program parallelization method, and program parallelization progr	Memory recycling in computer systems	Memory mapping in a multi-engine processor Diagnostic medical ultrasound system baying a pines and filters architecture	Programmable event driven vield mechanism which may activate other threads	Technique for reaching consistent state in a multi-threaded data processing system	METHOD AND APPARATUS FOR GENERATING AND DISTRIBUTING PERSONALIZED N	Method and apparatus to quiesce a portion of a simultaneous multithreaded central processing t	Array of parallel programmable processing engines and deterministic method of operating the sa	Computing grid for massively multi-player online games and other multi-user immersive persister	Methods and components for mechanical computer	System and method for designing, developing and implementing internet service provider archite	Instruction sequences for suspending execution of a thread until a specified memory access occ	Conerency techniques for suspending execution of a thread until a specified memory access oc	Method and apparatus for suspending execution of a thread until a specified memory access oc-	Method and apparatus to quiesce a portion of a simultaneous multithreaded central processing t	Monitor manager that creates and executes state machine-based monitor instances in a digital	Data processing architectures
US 20050257083 A1 US 20050251639 A1	20050251613	US 20050251040 A1	US 20050210275 A1	US 20050204348 A1	US 20050204316 A1	US 20050183072 A1	US 20050177816 A1	US 20050166039 A1	US 20050149697 A1	US 20050138328 A1	US 20050135387 A1	US 20050125795 A1	US 20050123029 A1	US 20030100/10 A1	US 20050081117 A1	US 20050050395 A1	US 20050050305 A1	US 20050049849 A1	US 20050044319 A1	US 20050021708 A1	US 20040267996 A1	US 20040244004 A1	US 20040237085 A1	US 20040215546 A1	US 20040194074 A1	US 20040193828 A1	US 20040186921 A1	US 20040163083 A1	US 20040148603 A1	US 20040107169 A1	US 20040073905 A1	US 20040006584 A1	US 20030177187 A1	US 20030172205 A1	US 20030172145 A1	US 20030126379 A1	US 20030126375 A1	20030126186	US 20030105944 A1	US 20030046645 A1	LS 20030041163 A1

20030220 711/104 20020905 709/226 20020808 705/59 20020711 715/513 20020627 707/104 1 20020328 717/105 20020328 707/10 20011115 375/150 20080101 347/9	20071218 712/207 20071113 717/104 20071106 717/130 20071106 347/40 20071106 347/40 20071016 347/9		20070605 718/1 20070515 718/102 20070508 718/105 20070501 710/200 20070313 347/40 20070314 400/62 20061024 711/145 20061017 379/88 16		20060103 709/224 20051227 711/154 20051129 709/217 20051101 717/128 20050823 375/142 20050823 600/437 20050809 718/102
Multi-threaded random access storage device qualification tool  Method of simulating operation of logical unit, and computer-readable recording medium retainin System and method for licensing management  Component models  Decentralized, distributed internet data management  System and method for leveraging independent innovation in entertainment content and graphics Speculative caching of individual fields in a distributed object system  Configurable multimode despreader for spread spectrum applications  Printhead module for expelling pink from nozzles in grantifications  Across thread out of order instruction diseases in a multithroad despreader.	Across-funead out of order instruction dispatch in a multithreaded graphics processor. Method and apparatus for automatic modeling building using inference for IT systems. Configuring methods that are likely to be executed for instrument-based profiling at application ru. Dynamically configuring selected methods for instrument-based profiling at application run-time. Printhead module having a dropped row.  Level 2 cache index hashing to avoid hot spots.  Printhead module having a communication input for data and control. Method of manufacturing left-handed and right-handed printhead modules.	Printhead comprising different printhead modules Printer controller for supplying data to one or more printheads via serial links Method of storing bit-pattern in plural devices Printer controller for supplying data to a printhead module having one or more redundant nozzle   Yield on multithreaded processors Unified network thread management Storage of program code in arbitrary locations in memory	Technique for reaching consistent state in a multi-threaded data processing system System and method for implementing a client side HTTP stack Method and apparatus for dynamically balancing call flow workloads in a telecommunications sy: Queued locks using monitor-memory wait Scalable, two-stage round robin arbiter with re-circulation and bounded latency Printer comprising two uneven printhead modules and at least two printer controllers, one of whice Printer comprising two uneven printhead modules and at least two printer controllers, one of whice Printhead having printhead modules vertically offset at join region Coherency techniques for suspending execution of a thread until a specified memory access occumentally and apparatus for generating and distributing personalized media clins	Safety controller with safety response time monitoring Safety controller with safety response time monitoring System and method for leveraging independent innovation in entertainment content and graphics Printer comprising two uneven printhead modules and at least two printer controllers, one which Ordered semaphore management subsystem Functional validation of a packet management unit Programmable graphics processor for generalized texturing Hardware accelerator for an object-oriented programming language	System, method and computer program product for analyzing e-commerce competition of an ent Hardware enforced virtual sequentiality Streaming content over a telephone interface Parallelism performance analysis based on execution trace information Configurable multimode despreader for spread spectrum applications Diagnostic medical ultrasound system having a pipes and filters architecture Software-based speculative pre-computation and multithreading
US 20030037203 A1 US 20020124085 A1 US 20020107809 A1 US 20020091736 A1 US 20020038378 A1 US 20020038451 A1 US 20020038301 A1 US 20010040915 A1 US 7340722 B2	7310722 7296256 7293260 7293259 7290852 7290116 7281777	7275805 7267417 726661 7252353 7251814 7249355 7243193	US 7228543 B2 US 7219346 B2 US 7216348 B1 US 7213093 B2 US 7200699 B2 US 7188928 B2 US 7163345 B2 US 7127561 B2 US 7123696 B2	7117048 7103873 7093989 7089555 7082552 6987517	US 6983320 B1 US 6981110 B1 US 6970915 B1 US 6961925 B2 US 6934319 B2 US 6932767 B2 US 6928645 B2

US 6848097 B1	Debugging techniques in a multithreaded environment	20050125 717/124
US 6826752 B1	Programming system and thread synchronization mechanisms for the development of selectively	20041130 718/100
US 6/89160 BZ	Multi-Inreaded random access storage device qualification tool Sustain and mathod for roal time at coming of ultrace and data to a discussification and included the control of the contro	20040907 711/104
US 6711616 B1	Client-server task distribution system and method	20040373 709/226
US 6694380 B1	Mapping requests from a processing unit that uses memory-mapped input-output space	20040217 710/5
US 6675192 B2	Temporary halting of thread execution until monitoring of armed events to memory location identi	20040106 718/107
US 6671686 B2	Decentralized, distributed internet data management	20031230 707/8
US 6618737 B2	Speculative caching of individual fields in a distributed object system	20030909 707/205
US 6574653 B1	Blackboard-centric layered software architecture	20030603 719/310
US 6549930 B1	Method for scheduling threads in a multithreaded processor	20030415 718/104
US 6493741 B1	Method and apparatus to quiesce a portion of a simultaneous multithreaded central processing u	20021210 718/107
US 6480818 B1	Debugging techniques in a multithreaded environment	
US 6442585 B1	Method for scheduling contexts based on statistics of memory system interactions in a computer	
US 6405326 B1	Timing related bug detector method for detecting data races	20020611 714/38
US 6401118 B1	Method and computer program product for an online monitoring search engine	20020604 709/224
US 6366947 B1	System and method for accelerating network interaction	20020402 709/203
US 6332178 B1	Method for estimating statistics of properties of memory system transactions	20011218 711/118
US 6324644 B1	Network enhanced bios enabling remote management of a computer without a functioning opera	20011127 713/1
US 6324492 B1	Server stress testing using multiple concurrent client simulation	20011127 703/13
US 6314471 B1	Techniques for an interrupt free operating system	20011106 710/5
US 6275785 B1	Hardware simulator for a transaction processing system	20010814 703/13
US 6240502 B1	Apparatus for dynamically reconfiguring a processor	20010529 712/15
US 6237073 B1	Method for providing virtual memory to physical memory page mapping in a computer operating:	20010522 711/202
US 6237059 B1	Method for estimating statistics of properties of memory system interactions among contexts in a	
US 6230313 B1	Parallelism performance analysis based on execution trace information	20010508 717/128
US 6223208 B1	Moving data in and out of processor units using idle register/storage functional units	20010424 718/108
US 6219778 B1	Apparatus for generating out-of-order results and out-of-order condition codes in a processor	20010417 712/23
US 6205414 B1	Methodology for emulation of multi-threaded processes in a single-threaded operating system	20010320 703/26
US 6202127 B1	Apparatus for spatial and temporal sampling in a computer memory system	20010313 711/118
US 6199075 B1	Method and apparatus for generational garbage collection of a heap memory shared by multiple	20010306 707/206
US 6199068 B1	Mapping interface for a distributed server to translate between dissimilar file formats	
US 6195748 B1	Apparatus for sampling instruction execution information in a processor pipeline	20010227 712/227
US 6175814 B1	Apparatus for determining the instantaneous average number of instructions processed	20010116 702/182
US 6163840 A	Method and apparatus for sampling multiple potentially concurrent instructions in a processor pil	20001219 712/227
US 6148396 A	Apparatus for sampling path history in a processor pipeline	20001114 712/227
US 6144982 A	Pipeline processor and computing system including an apparatus for tracking pipeline resources	20001107 718/104
US 6119075 A	Method for estimating statistics of properties of interactions processed by a processor pipeline	20000912 702/186
US 6101524 A	Deterministic replay of multithreaded applications	20000808 718/102
US 6092180 A	Method for measuring latencies by randomly selected sampling of the instructions while the instr	20000718 712/200
US 6092175 A	Shared register storage mechanisms for multithreaded computer systems with out-of-order exec	20000718 712/23
US 6088659 A	Automated meter reading system	20000711 702/62
US 6085305 A	Apparatus for precise architectural update in an out-of-order processor	20000704 712/23
US 6070009 A	Method for estimating execution rates of program execution paths	20000530 717/130
US 6058466 A	System for allocation of execution resources amongst multiple executing processes	20000502 712/15
US 6035374 A	Method of executing coded instructions in a multiprocessor having shared execution resources in	20000307 711/118
US 6000044 A	Apparatus for randomly sampling instructions in a processor pipeline	19991207 714/47

	System, method and article of manufacture for secure digital certification of electronic commerce	19991130 713/156
Syster	System and method for streaming multimedia data	19991130 715/500.1
Netwo	Network enhanced BIOS enabling remote management of a computer without a functioning oper	19991102 713/2
Meth	Method for inserting memory prefetch operations based on measured latencies in a program opt	19991012 712/219
Meth	Method for precise architectural update in an out-of-order processor	19990928 712/237
Appa	Apparatus for sampling instruction operand or result values in a processor pipeline	19990713 712/244
Meth	Method for dynamically reconfiguring a processor	19990330 712/15
Meth	Method for tracking pipeline resources in a superscalar processor	19990112 712/23
Com	Computer product for precise architectural update in an out-of-order processor	19981117 712/32
Syste	System and method for checking the use of synchronization locks in a multi-threaded target proc	19981013 717/131
Meth	Method for estimating statistics of properties of instructions processed by a processor pipeline	19980915 702/186
Interr	Interrupt-based hardware support for profiling memory system performance	19980616 714/47
Com	Computer memory product with preemptive multithreading software	19971202 718/107
Real	Real-time multi-user game communication system using existing cable television infrastructure	19970520 463/43
Con	Converting a windowing operating system messaging interface to application programming interf	19970422 718/100
Dete	Detector for a security thread having at least two security detection features	19960716 194/206
Appa	Apparatus and method for interrupt handling in a multi-threaded operating system kernel	19960507 710/260
Later	Latency tolerant risc-based multiple processor with event driven locality managers resulting from	19950815 717/149
Meth	Method and apparatus for substituting real and virtual devices independent from an data process	19940809 719/324
Syste	System concurrently running application programs and selectively routing device input to resource	19920428 718/104
Syste	System for merging virtual partitions of a distributed database	19890801 707/203
Metho	Method and apparatus for forming simulated threads in plastic sheet material	19610801 156/178
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